

AMENDMENTS TO THE CLAIMS

Listing of claims:

1 - 15 (Cancelled)

16. (Currently Amended): An optical probe comprising:
a prism having a rounded top; and
a first waveguide in or on a bottom portion of the prism, the rounded top to focus light entering the prism into the first waveguide[[: and]]

[[wherein the prism is at least partially made of sapphire, high density glass, LiNbO_3 , or rutile]].

17. (Cancelled)

18. (Currently Amended) The optical probe of claim 16, further comprising:
a second waveguide in or on the bottom portion of the prism, wherein the rounded top constitutes more than one focus to couple light into the first waveguide and the second waveguide.

19. (Currently Amended) The optical probe of claim 16, wherein the light entering the rounded top is capable of being redirected approximately 90 degrees by the prism and the first waveguide.

20. (Original) The optical probe of claim 16, wherein the rounded top comprises a microlens array.

21. (Currently Amended) A method of making an optical probe, the method comprising:

forming a lens surface on a prism; and

forming a waveguide in or on a bottom portion of the prism.

22. (Original) The method of claim 21, wherein the waveguide is formed by diffusion or ion exchange.
23. (Original) The method of claim 21, wherein the waveguide is formed by ion implantation.
24. (Original) The method of claim 21, wherein the waveguide is formed by deposition.
25. (Currently Amended) The method of claim 21 further comprising:
forming a second waveguide in or on the bottom portion of the prism.
26. (Original) The method of claim 21, wherein forming the lens surface on the prism further comprises
forming a lens surface having more than one focus.
27. (Original) The method of claim 21, wherein forming the lens surface on the prism further comprises
forming a lens surface having a microlens array.
28. (New) The optical probe of claim 16, wherein the prism is at least partially made of sapphire, high density glass, LiNbO_3 , or rutile.
29. (New) The optical probe of claim 16, wherein the first waveguide comprises an integrated waveguide.
30. (New) The optical probe of claim 16, wherein the first waveguide has a higher index of refraction than the prism.

31. (New) The optical probe of claim 16, wherein the first waveguide has an end selected from an abrupt end and a graded end.

32. (New) The method of claim 21, wherein the waveguide is formed within the prism.